

PTO/SB/08A (08-03)

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet	1	of	1	Attorney Docket Number	020921-001930US
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**Complete if Known**

Application Number	10/659,737
Filing Date	September 9, 2003
First Named Inventor	Victor B. Kley
Art Unit	2856
Examiner Name	T. Noland

**U.S. PATENT DOCUMENTS\***

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
JCN	1	2003/0167831		09-11-2003	Kley	73/105
	2	6,614,227		09-02-2003	Ookubo	73/105X
	3	6,515,277		02-04-2003	Kley	256/306X
	4	6,507,553		01-14-2003	Kley	369/126
	5	2002/0135755		09-26-2002	Kley	356/72
	6	2002/0117611		08-29-2002	Kley	255/237
	7	6,396,054		05-28-2002	Kley	250/237
	8	6,369,379		04-09-2002	Kley	250/237
	9	6,339,217		01-15-2002	Kley	250/306X
	10	6,281,491		08-28-2001	Kley	250/306X
	11	2001/0010668		08-02-2001	Kley	250/306X 369/44.14
	12	6,242,734		06-05-2001	Kley	250/306X
	13	6,239,426		05-29-2001	Muramatsu et al.	73/105X
	14	6,232,597		05-15-2001	Kley	250/306X
	15	6,229,607		05-08-2001	Shirai et al.	73/105X
	16	6,199,269		03-13-2001	Graco et al.	297/700
	17	5,254,209		10-19-1993	Schmidt et al.	216/2

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	†
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
JCN	18	PCT	WO04/023490		03-18-2004	General Nanotechnology		<input type="checkbox"/>
JCN	19	PCT	WO03/046473		06-05-2003	General Nanotechnology	6-01B 5/28	<input type="checkbox"/>

Examiner Signature		Date Considered	11/17/04
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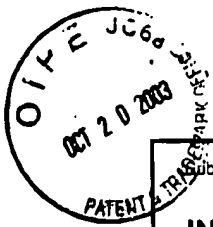
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		Art Unit	2878 2856		
		Examiner Name	Unassigned		
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U.S. PATENT DOCUMENTS+					
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TKP	1	US-6,201,226	03-13-2001	Shimada et al.	250/306 X
	2	US-6,173,604	01-16-2001	Xiang et al.	73/105
AS	3	US-5,804,709	09-08-1998	Bougoin et al.	73/105
	4	US-5,289,004	02-22-1994	Okada et al.	250/306

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APR	1	6,517,249	02-11-2003	Doll	384/492
	2	6,353,219	03-05-2002	Kley	250/306X
	3	2002/0007667	01-24-2002	Pohl et al.	73/105
	4	6,340,813	01-22-2002	Tominaga et al.	250/306
	5	6,337,479	01-08-2002	Kley	250/306
	6	6,265,711	07-24-2001	Kley	250/306
	7	6,252,226	06-26-2001	Kley	250/306
	8	6,229,138	05-08-2001	Kley	250/306X
	9	6,229,609	05-08-2001	Muramatsu et al.	250/306X
	10	6,144,028	11-07-2000	Kley	250/306X
	11	6,101,164	08-08-2000	Kado et al.	250/306X
	12	6,066,265	05-23-2000	Galvin et al.	216/2
	13	6,031,756	02-29-2000	Gimsewski et al.	365/151
	14	5,922,214	07-13-1999	Liu et al.	216/2
	15	5,883,387	03-16-1999	Matsuyama et al.	250/306
	16	5,874,726	02-23-1999	Haydon	250/306.1
	17	5,865,978	02-02-1999	Cohen	205/118
	18	5,825,670	10-20-1998	Chernoff et al.	73/105X
	19	5,821,410	10-13-1998	Xiang et al.	73/105
	20	5,763,879	06-09-1998	Zimmer et al.	250/306
	21	5,758,997	05-26-1998	Kley	250/306
	22	5,751,683	05-12-1998	Kley	250/306
	23	5,721,721	02-24-1998	Yanagisawa	250/306X
	24	5,717,680	02-10-1998	Yamano	369/126
	25	5,679,952	10-21-1997	Lutwyche et al.	250/306
	26	5,644,512	07-01-1997	Chernoff et al.	73/105X
	27	5,634,230	06-03-1997	Maurer	15/4.1
	28	5,623,476	04-22-1997	Eguchi	369/126
	29	5,610,898	03-11-1997	Takimoto	369/126
	30	5,602,820	02-11-1997	Wickramasinghe et al.	250/306X
	31	5,583,286	12-10-1996	Matsuyama	73/105
	32	5,560,244	10-01-1996	Prater et al.	73/105
	33	5,559,328	09-24-1996	Weiss et al.	250/306
	34	5,548,117	08-20-1996	Nakagawa	250/306X
	35	5,519,686	05-21-1996	Yanagisawa et al.	250/306X
	36	5,510,815	04-23-1996	Ho et al.	250/306
	37	5,508,829	04-09-1996	Yagi	250/306X
	38	5,502,306	03-26-1996	Meisburger et al.	250/306
	39	5,495,109	02-27-1996	Lindsay et al.	250/306
	40	5,490,132	02-06-1996	Yagi et al.	250/306X
	41	5,472,881	12-05-1995	Beebe et al.	250/306X

Examiner Signature	Tom N. Lee	Date Considered	11/19/04
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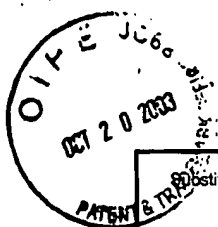
Substitute for form 1449A/PTO			<b>Complete if Known</b>		
			Application Number	10/659,737	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			Filing Date	September 9, 2003	
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Sheet	2	of	5	Attorney Docket Number	020921-001930US

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Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
TAP	42	5,471,458	11-28-1995	Oguchi et al.	250/306X
	43	5,463,897	11-07-1995	Prater et al.	73/105
	44	5,461,605	10-24-1995	Takimoto	250/306X
	45	5,455,420	10-03-1995	Ho et al.	250/306
	46	5,453,970	09-26-1995	Rust et al.	250/306X
	47	5,426,631	08-20-1995	Miyazaki et al.	250/306X
	48	5,418,363	05-23-1995	Elings et al.	250/306
	49	5,416,331	05-16-1995	Ichikawa et al.	250/306X
	50	5,414,690	05-09-1995	Shido et al.	250/306X
	51	5,414,260	05-09-1995	Takimoto et al.	250/306
	52	5,412,641	05-02-1995	Shinjo	250/306X 369/126
	53	5,408,094	04-18-1995	Kajimura	250/306X
	54	5,396,483	03-07-1995	Matsida	369/283
	55	5,393,647	02-28-1995	Neukermans et al.	430/320
	56	5,392,275	02-21-1995	Kawada et al.	369/126
	57	5,389,475	02-14-1995	Yanagisawa	250/306X
	58	5,373,494	12-13-1994	Kawagishi	369/126
	59	5,362,963	11-08-1994	Kopelman et al.	250/306X
	60	5,360,977	11-01-1994	Onuki et al.	250/306
	61	5,357,110	10-18-1994	Statham	250/306
	62	5,357,109	10-18-1994	Kusumoto	250/306
	63	5,354,985	10-11-1994	Quate	250/306X
	64	5,353,632	10-11-1994	Nakagawa	73/105
	65	5,349,735	09-27-1994	Kawase	250/306X
	66	5,343,480	08-30-1994	Miyazaki	250/306X
	67	RE34708	08-30-1994	Hansma et al.	250/306
	68	5,338,932	08-16-1994	Theodore et al.	250/306
	69	5,322,735	06-21-1994	Fridez et al.	428/357
	70	5,319,977	06-14-1994	Quate et al.	250/306X
	71	5,319,981	06-14-1994	Matsuyama et al.	73/105
	72	5,317,533	05-31-1994	Quate	250/306
	73	5,317,152	05-31-1994	Takamatsu.	250/306
	74	5,308,974	05-03-1994	Elings et al.	250/306X
	75	5,302,239	04-12-1994	Roe et al.	250/306X
	76	5,299,184	03-29-1994	Yamano	250/306X
	77	5,297,130	03-22-1994	Tagawa	250/306X
	78	5,289,408	02-22-1994	Mimura	250/306X
	79	5,289,044	02/22/1994	Okada et al. - Iwaki	367/164
	80	5,283,437	02-01-1994	Greshner et al.	250/306
	81	5,278,704	01-11-1994	Matsuda	360/55
	82	5,276,672	01-04-1994	Miyazaki	250/306X

Examiner Signature	<i>Sam N. ...</i>	Date Considered	11/19/04
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PTO/SB/08A (08-03)

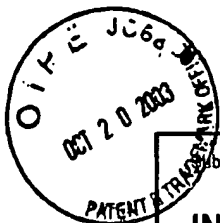
Institute for form 1449/PTO			<b>C mplete if Known</b>		
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JN	83	5,260,824	11-09-1993	Okada et al.	73/107X
	84	5,254,854	10-19-1993	Betzig	250/306X
	85	5,249,077	09-28-1993	Laronga	259/385
	86	5,241,527	08-31-1993	Eguchi	350/306X
	87	5,231,286	07-27-1993	Kajimura et al.	250/306X
	88	5,220,555	06-15-1993	Yanagisawa	369/126
	89	5,216,631	06-01-1993	Sliwa	365/177
	90	5,210,410	05-11-1993	Barret	250/306X
	91	RE34214	04-08-1993	Carlsson et al.	378/79
	92	5,187,367	02-16-1993	Miyazaki	250/306
	93	5,186,520	11-24-1992	Prater et al.	250/306
	94	5,155,589	10-13-1992	Gere	348/29
	95	5,148,308	09-15-1992	Kopelman	359/432
	96	5,142,145	08-25-1992	Yasutake	250/306
	97	5,138,159	08-11-1992	Takase et al.	250/306
	98	5,118,541	06-02-1992	Yamamoto et al.	428/648
	99	5,108,865	04-28-1992	Zwaldo et al.	435/128
	100	5,107,112	04-21-1992	Yanagisawa et al.	250/306
	101	5,105,305	04-14-1992	Betzig et al.	359/368
	102	5,081,390	01-14-1992	Elings et al.	310/328
	103	5,072,116	12-10-1991	Kawade et al.	250/306
	104	5,047,649	09-10-1991	Hodgson et al.	250/306X
	105	5,047,633	09-10-1991	Finlan et al.	250/306
106	5,043,577	08-27-1991	Pohi	250/306	
107	5,038,322	08-06-1991	Van Loenen	250/306X	
108	5,025,346	06-18-1991	Tang	261/283.1	
109	5,018,865	05-28-1991	Ferrell et al.	356/600	
110	5,015,850	05-14-1991	Zdeblick	250/306	
111	5,010,249	04-23-1991	Nishikawa	216/11	
112	5,001,344	03-19-1991	Kato et al.	250/307	
113	4,999,495	03-12-1991	Miyata et al.	250/306	
114	4,954,704	09-04-1990	Elings et al.	250/306X	
115	4,924,091	05-08-1990	Hansma et al.	250/306	
116	4,907,195	03-06-1990	Kazan et al.	250/306X	
117	4,866,986	09-19-1989	Cichanski	273/600	
118	4,831,614	05-16-1989	Duerig	250/306X	
119	4,793,201	12-27-1988	Kasai et al.	74/89.43	
120	4,697,594	10-08-1987	Mayo, Jr.	600/443	
121	4,681,451	07-21-1987	Guerra et al.	250/356/600	
122	RE32457	07-07-1987	Matey	250/306X	
123	4,673,477	06-16-1987	Ramalingam et al.	207/11238	

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60056096 v1



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TAK	124	4,672,559		08-09-1987	Jansson et al.	382/128
	125	4,604,520		08-05-1986	Pohl	250/216
TAK	126	4,115,806		08-19-1978	Morton	382/317
	127	3,812,288		05-21-1974	Walsh et al.	378/88-6
	128	3,586,865		06-22-1971	Baker et al.	250/214.56

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		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	129	PCT	WO 01/03157		01-11-2001			
	130	PCT	WO 98/34092	A2	08-06-1998			
	131	PCT	WO 97/04449		02-08-1997			
	132	PCT	WO 96/03641	A1	02-08-1996			
	133	JP	7-105580		04-21-1995			yes
	134	JP	61-133085		06-20-1986			abstract only
	135	JP	1-262403		10-19-1989			abstract only
	136	EP	0325056		07-26-1989			

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Considered on Previous 1449

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